

# UNIQUE IDENTIFICATION (UID)



## **Unique Identification (UID) of Tangible Items**



# DoD Vision for Item Marking

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To implement a policy establishing a strategic imperative for uniquely identifying tangible items relying to the maximum extent practical on international standards and commercial item markings and while not imposing unique government data requirements.

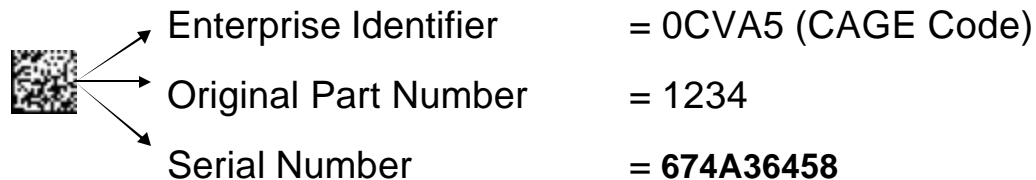
Uniquely identified (UID) tangible items will facilitate item tracking in DoD business systems and provide reliable and accurate data for management, financial, accountability and asset management purposes.



## UID: How is it Constructed?

The UID shall be derived from its discrete component data elements – the UID is not required to be marked on the item as a separate data element

From the Data Matrix:



The UID can be derived using the IAC for CAGE, which is “D”:

UID Construct 1	UID Construct 2
<i>If the Serial Number is Unique within the Enterprise Identifier</i>	<i>If the Serial Number is Not Unique within the Enterprise Identifier but is Unique within the Part Number</i>
<b>D0CVA5674A36458</b>	<b>D0CVA51234674A36458</b>



## UID OUTCOMES: Why Do It?

<b>Acquisition</b> <ul style="list-style-type: none"><li>▪ Increase business intelligence</li><li>▪ Enable paperless Government Furnished Property Management</li><li>▪ Leverage commercial technologies and practices</li><li>▪ Increase supply chain visibility</li><li>▪ Create a common language of business</li></ul>	<b>Logistics</b> <ul style="list-style-type: none"><li>▪ Increase systems/equipment operational availability</li><li>▪ Lower costs of managing assets</li><li>▪ Improve end to end asset visibility</li><li>▪ Reliability and maintainability info on each item through life</li><li>▪ Improve supply chain efficiency</li></ul>
<b>Accounting and Finance</b> <ul style="list-style-type: none"><li>▪ Enable clean audit opinion</li><li>▪ Reduce late interest penalties</li></ul>	<b>Joint Forces</b> <ul style="list-style-type: none"><li>▪ Increase in-transit visibility</li><li>▪ Decrease frustrated freight</li><li>▪ Enable coalition support</li><li>▪ Improve data quality and interoperability</li></ul>



## UID Policy Overview

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- ◆ Final UID policy released on July 29<sup>th</sup> established UID as a mandatory DoD requirement on all solicitations issued on or after January 1, 2004.
  - Policy Updates issued November 26, 2003 and December 22, 2003.
- ◆ UID is required for all property items delivered to the Government if:
  - Acquisition cost is more than \$5,000
  - Item is serially managed, mission essential, or controlled inventory piece of equipment or reparable; or a consumable item or material requiring permanent identification
  - Item is a component of a delivered item and PM requires UID
  - UID or DoD-recognized equivalent is available
- ◆ Wide Area Workflow (WAWF) will be modified to capture UID and WAWF will be a mandatory payment requirement no later than January 1, 2005



## UID: Acquisition Regulation

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- ◆ The contractor shall deliver all items under a contract line, subline, or exhibit line item and determine the data qualifier strategy they will use
- ◆ Specific Requirements
  - ◆ “Item” is defined as a single hardware article or unit formed by a grouping of subassemblies, components or constituent parts
  - ◆ The requiring activity determines the necessity for UID for items with a unit acquisition cost less than \$5,000
  - ◆ The requiring activity determines whether to require a UID for subassemblies, components, and parts embedded within an item regardless of dollar value
  - ◆ Subassemblies, components and parts embedded within an item will be identified in a CDRL or other exhibit (see the Data Item Description for Use in Preparing the DD1423 (CDRL) at [www.acq.osd.mil/uid](http://www.acq.osd.mil/uid))
  - ◆ Requirements for UID and acquisition cost determination will be passed on from prime to subcontractors



## UID: Database Data Transmission

The contractor is required to transmit, upon shipment notification, UID database data in addition to the data in the Data Matrix symbol and in addition to any data previously required during shipment notification

Database data required for UID includes:

### End Item Database Data (15)

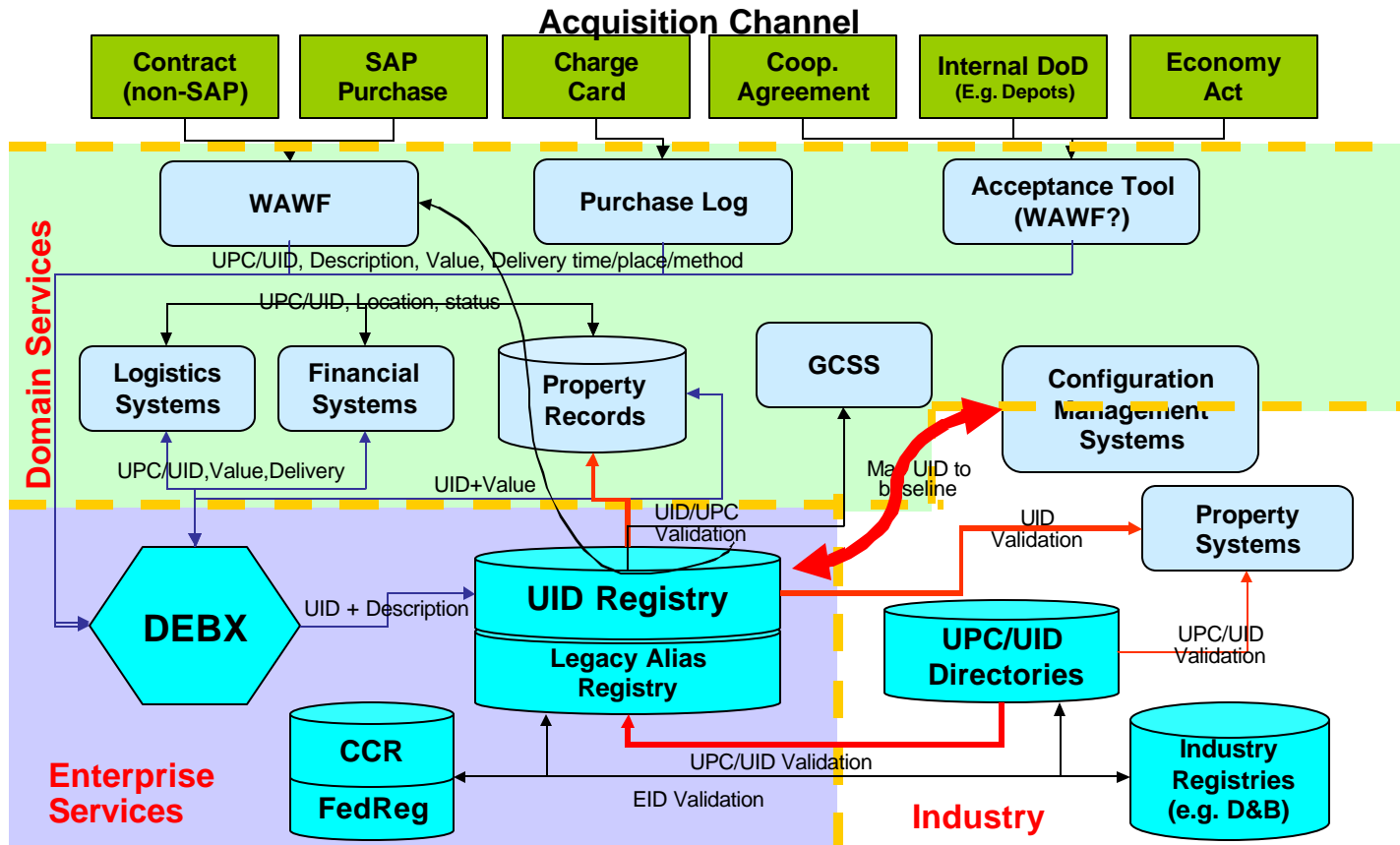
- ◆ **UID (Concatenated)**
- ◆ Descriptive Data
  - UID Data Elements (3)
  - Issuing Agency Code
  - UID Type
  - Item Description
  - Unit of measure
- ◆ Acquisition Data
  - Contractor
  - Contract Number
  - CLIN/SLIN/ELIN
  - Price
  - Acceptance Code (identifies acceptor)
  - Acceptance Date
  - Ship to code

### Embedded Items of End Items (10)

- ◆ UID (Concatenated)
- ◆ Descriptive Data
  - UID Data Elements (3)
  - Issuing Agency Code
  - UID Type
  - Item Description
  - Unit of measure
- ◆ **Parent UID as of delivery date**
- ◆ GFP flag



# UID Data Capture and Reuse





## Current Opportunities

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- ◆ Define the enterprise-wide concepts for the UID Registry
- ◆ Integrate UID and RFID requirements where possible to lower the overall cost to implement both programs (e.g., aligning MIL-STD 129 and MIL-STD 130)
- ◆ Build support for the use of a consistent acquisition data capture process and tool (i.e., Wide Area Work Flow)
- ◆ Identify Business Process Reengineering opportunities
- ◆ Explore the feasibility for a “paperless” Government Furnished Property management process
- ◆ Develop alternate strategies for implementing UID in legacy programs



## Emerging UID Strategies

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- ◆ **Corporate and Plant-wide single processes (Engine manufacturers)**
- ◆ Corporate top-down strategies
- ◆ Pilot programs (JDAM; CH-47)
- ◆ Program level (Blackhawk)
- ◆ Small business (Central labeling capability; marking by prime contractor or government)
- ◆ **Engineering drawings best business practices**
- ◆ Standard flow-down clause to suppliers
- ◆ **Legacy item data integration**



# UID Policy Implementation Timeline

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## Policy

- ◆ UID policy (Implementation effective Jan 2004) - 29 July 2003
- ◆ RFID policy (ADUSD Supply Chain Integration)
  - 2 October 2003
  - Continue Current Use
  - July 2004
  - January 2005
- ◆ UID Implementation for Contracts with Government Furnished Property - Jan 2005

## DFARS Item Identification and Valuation Interim Rule

- ◆ DFARS Interim Rule Published in Federal Register - December 2003
- ◆ Final Rule - June 2004

## ISO/IEC 15434 Change Request

- ◆ Finalize "New Work Item Proposal" - October 2003
- ◆ Gather change request support - ongoing
- ◆ ISO/IEC 15434 amendment issued - Jun 2005

## WAWF Modifications

- ◆ Initial UID Data Capture Capability - May 10 2004



## Contact Information

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A variety of UID background materials and previous UID policy memos can be found at

[www.uniqueid.org](http://www.uniqueid.org)